## PROJECT DESCRIPTION

#### I. GENERAL

This project involves the modification of the existing traffic control signal at the intersection of MD 543 and WheelRoad in Harford County, Maryland. MD 543 is considered to run in a north/south direction.

#### II. INTERSECTION OPERATION

The intersection is to be modified to operate in a NEMA six (6) phase, full-traffic-actuated mode. There is an exclusive/permissive left turn phase for the northbound movement of MD 543. The MD 543 through movements operate concurrently. There will be an exclusive/permissive left turn phase for the westbound movement of WheelRoad. The WheelRoad through movements will operate concurrently.

The existing cabinet/controller will be utilized. One 4-channel rack mounted time delay output loop

detector amplifier is to be added.

### EQUIPMENT LIST

Α.	Approved S.H.A. equipment to be purchased by the Developer and installed by the
	Contractor. All equipment in this list shall have catalog cuts submitted for approval

Contractor.	All equipmen		nave catalog cuts submitted for approval	All equipment in this list shall have catalog cuts submitted for approval prior to installation.							
prior to inst Quantity	allation. Units	Specification Section	Description	Quantity	Units	Specification Section	Description				
1	EA	818	One 4-channel loop detector amplifiers.	Lump Sum	LS	108	Mobilization.				
1			12 in., one-way, three section (R,Y,G) adjustableblack faced	Lump Sum	LS	104	Maintenance of traffic.				
			traffic signal head with mast arm mounting hardware and tunnel visors.	1	CY	205	Test pit excavation.				
1 EA 814			12 in., one-way, five section (R,Y,YA,G,GA) adjustable blacked faced	3	EA	811	Handhole.				
			traffic signalhead with mast arm mounting hardware and tunnel visors.	420	LF	815	Sawcut for signalloop detector.				
1	1 EA 814	12 in./8 in., one-way, five section (12 in. YA, GA/ 8 in. R,Y,G)	1375	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.					
			adjustable black faced traffic signalhead with mast arm mounting hardware and tunnelvisors.	200	LF	810	7-conductor electrical cable (No. 14 A.W.G.).				
1	EA	813	36 in. x 42 in. R 10-12 sign with mast arm mounting hardware.	700	LF	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).				
3	EA		Micro-loop probe (set of 3) with 500 ft. lead-in cable.	15		805	1 in. liquid tight flexible non-metalic conduit for loop detector sleeve.				
				55	Topical and the second	805	2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.				
				55	LF.	805	2 in. polyvinyl chloride [Schedule 80] electrical conduit - slotted in roadway.				
				40	and the second	556	24 in. wide HAPPTPM - white for stop line.				
				Lunp Sum	LS	~ ~ ~	Remove existing traffic signal equipment.				
				Lump Sum	LS	***	As-built for S.H.A. [on CADD].				

B. Equipment to be furnished and/or installed by the Contractor.

# CONTACT\_LIST

The contact persons for District #4 are as follows:

Mr. Dave Malkowski District Engineer 410-321-2810

Mr. Randall Scott Assistant District Engineer - Traffic 410-321-2781

Mr. Graydon Tobery Assistant District Engineer - Utility 410-321-3460

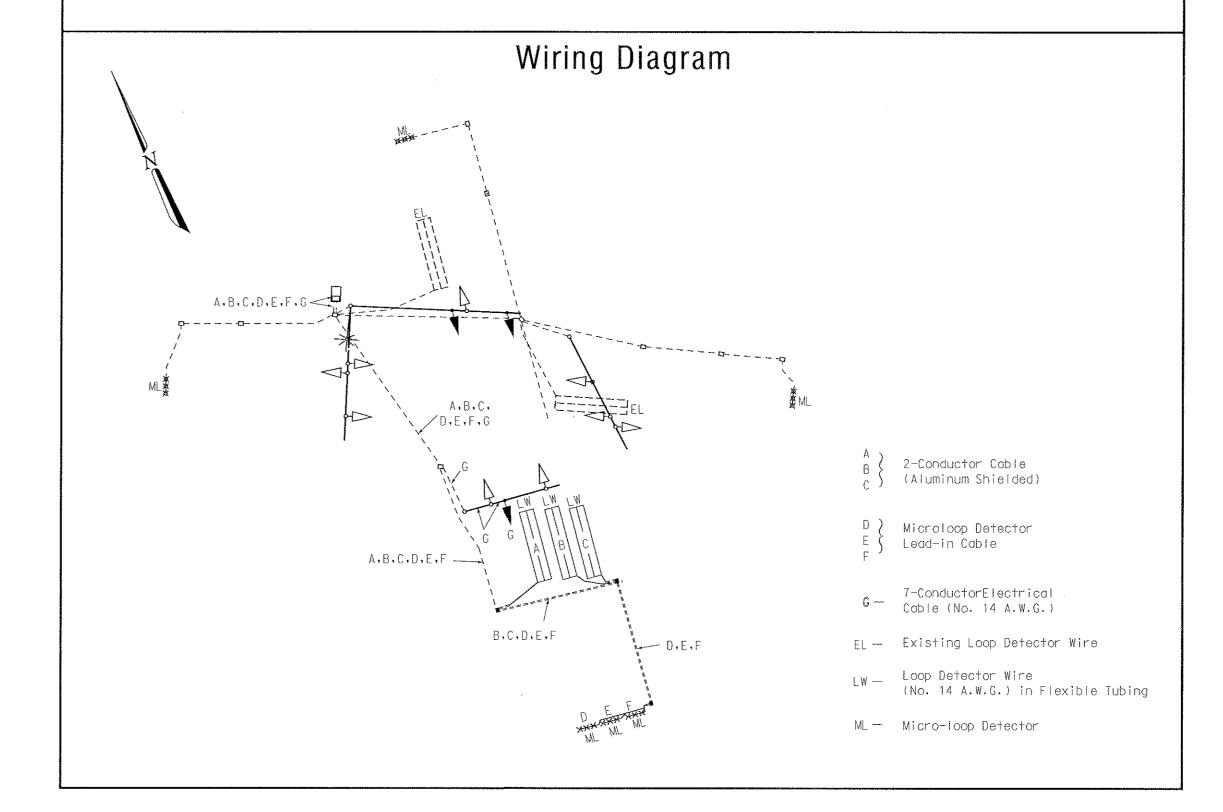
Mr. Dave Ramsey Assistant District Engineer - Maintenance 410-321-2761

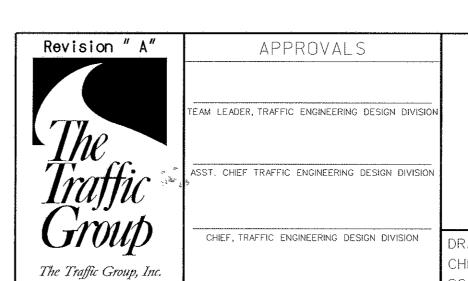
Mr. Richard L. Daff Chief, Traffic Operations Division 410-787-7630

	(R) (Y) (G)	2 R Y G	3 (R) (Y) (G)	4 (17-17) (16-16)	5 (A) (A) (B) (G)	6 (R) (Y) (G)	7 (17-) v	8 (Y) (Y) (36) (G)	9 (R) (Y) (G)	1 () (B) (Y) (G)	9 R Y G	10 (R) (Y)	
Phase 2 & 5	R	R	R	G	. G	G	R	R	R	R	R	R	4
5 Change	R	R	R	G <b>⊸</b> Y—	G	G	R	R	R	R	R	R	√
Phase 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	4
		1	-			~	1	-	-			·	4

Phase 2 & 5	R	R	R			G	R	R	R	R	R	R	<b>↓</b>
5 Change	R	R	R	G <b>⊸</b> Y—	G <b>←</b> Y —	G	R	R	R	R	R	R	√ √
Phase 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	4
2 & 6 Change	Y	Υ	Y	Υ	Υ	Υ	R	R	R	R	R	R	>
Phase 3 & 8	R	R	R	R	R	R	G <b>-</b> -G-	G - <b>4</b> -G-	R	R	R	R	4 1
3 & 8 Change	R	R	R	R	R	R	G <b>←</b> Y —	G 	R	R	R	R	
Phase 4 & 8	R	R	R	R	R	R	G	G	G	G	G	G	Α
4 & 8 Change	R	R	R	R	R	R	Y	Υ	Υ	Υ	Υ	Υ	↓
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	4 A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Phase Chart





DIRECTOR, TRAFFIC & SAFETY

410-931-6600 Fax 410-931-6601

MARY	LAND DOT - Office of	STATE I	HIGHWAY	ADMINISTRATION
			_	
TRAFFIC	ENGINEE	CRING	DESIGN	DIVISION

(General Information Plan)

MD 543 at Wheel Road

RAWN BY: <u>Frank Hoeckel</u> F.A.P. NO. GI-3639A S.H.A. NO. BW996M82 CHECKED BY: SHEET NO. N/A Harford SCALE: COUNTY: T.I.M.S. NO. LOG MILE: 12054303.76 May 22, 2000 D820 DATE: